

TMX1 antibody - C-terminal region
Rabbit Polyclonal Antibody
Catalog # AI14893**Specification****TMX1 antibody - C-terminal region - Product Information**

Application	WB
Primary Accession	O9H3N1
Other Accession	NM_030755 , NP_110382
Reactivity	Human, Pig, Horse, Bovine, Dog
Predicted	Human, Horse, Bovine, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	31kDa KDa

TMX1 antibody - C-terminal region - Additional Information**Gene ID** 81542**Alias Symbol** DKFZp564E1962, PDIA11, TMX, TXNDC, TXNDC1**Other Names**

Thioredoxin-related transmembrane protein 1, Thioredoxin domain-containing protein 1, Transmembrane Trx-related protein, TMX1, TMX, TXNDC, TXNDC1

Format

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 50 ul of distilled water. Final anti-TMX1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions

TMX1 antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

TMX1 antibody - C-terminal region - Protein Information**Name** TMX1 {ECO:0000303|PubMed:37648867, ECO:0000312|HGNC:HGNC:15487}**Function**

Thioredoxin domain-containing protein that participates in various redox reactions through the reversible oxidation of its active center dithiol to a disulfide and catalyze dithiol-disulfide exchange reactions (PubMed:11152479, PubMed:37648867). Acts as a key inhibitor of the alternative triglyceride biosynthesis pathway by inhibiting the activity of TMEM68/DIESL at the endoplasmic reticulum, thereby restricting accumulation of triacylglycerol (PubMed:11152479).

[37648867](http://www.uniprot.org/citations/37648867)). The alternative triglyceride biosynthesis pathway mediates formation of triacylglycerol from diacylglycerol and membrane phospholipids (PubMed:[37648867](http://www.uniprot.org/citations/37648867)). Acts as a protein disulfide isomerase by catalyzing formation or reduction of disulfide bonds (PubMed:[22228764](http://www.uniprot.org/citations/22228764), PubMed:[29932915](http://www.uniprot.org/citations/29932915)). Specifically mediates formation of disulfide bonds of transmembrane proteins at the endoplasmic reticulum membrane (PubMed:[22228764](http://www.uniprot.org/citations/22228764)). Involved in endoplasmic reticulum-associated degradation (ERAD) via its protein disulfide isomerase activity by acting on folding-defective polypeptides at the endoplasmic reticulum membrane (PubMed:[29932915](http://www.uniprot.org/citations/29932915)). Acts as a negative regulator of platelet aggregation following secretion in the extracellular space (PubMed:[30425049](http://www.uniprot.org/citations/30425049)). Acts as a regulator of endoplasmic reticulum- mitochondria contact sites via its ability to regulate redox signals (PubMed:[27502484](http://www.uniprot.org/citations/27502484), PubMed:[31304984](http://www.uniprot.org/citations/31304984)). Regulates endoplasmic reticulum- mitochondria Ca(2+) flux (PubMed:[27502484](http://www.uniprot.org/citations/27502484)).

Cellular Location

Endoplasmic reticulum membrane; Single-pass type I membrane protein. Mitochondrion membrane; Single-pass type I membrane protein. Secreted. Note=Predominantly found in the endoplasmic reticulum (PubMed:11152479). Secreted in the extracellular space following thrombin stimulation (PubMed:30425049). Localizes to mitochondria-associated endoplasmic reticulum membrane (MAM); palmitoylation is required for MAM localization (PubMed:22045338, PubMed:27502484, PubMed:31304984).

Tissue Location

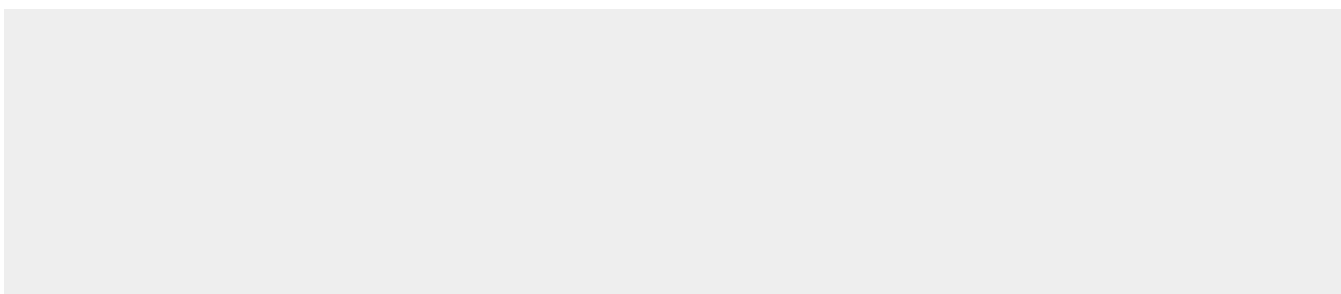
Ubiquitous (PubMed:11152479). Highly expressed in kidney, liver, placenta and lung (PubMed:11152479)

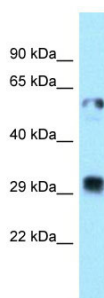
TMX1 antibody - C-terminal region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

TMX1 antibody - C-terminal region - Images





WB Suggested Anti-TMX1 Antibody Titration: 1.0 µg/ml
Positive Control: Fetal Lung

TMX1 antibody - C-terminal region - References

Matsuo Y., et al. J. Biol. Chem. 276:10032-10038(2001).
Clark H.F., et al. Genome Res. 13:2265-2270(2003).
Ota T., et al. Nat. Genet. 36:40-45(2004).
Otsuki T., et al. DNA Res. 12:117-126(2005).
Bechtel S., et al. BMC Genomics 8:399-399(2007).